



Norman H. Bangerter

Governor

Suzanne Dandoy, M.D., M.P.H.

Executive Director

Kenneth L. Alkema

Director

State of Utah

DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

288 North 1460 West

P.O. Box 16690

Salt Lake City, Utah 84116-0690

(801) 538-6121

RECEIVED
OCT 15 1990

DIVISION OF
OIL, GAS & MINING

DOGMA
MINERALS PROGRAM
FILE COPY

October 11, 1990

M/023/003
Brush-Wellman

Mr. Donald J. McMillan
Brush Wellman, Inc.
P.O. Box 815
Delta, Utah 84624

RE: Ground Water Discharge Permit

Dear Mr. McMillan:

We are writing to summarize the results of our August 19, 1990 meeting, in which we discussed your forthcoming application for a ground water discharge permit. Information provided by Brush Wellman in previous reports indicates the tailings pond is still leaking a substantial amount of fluid containing about 20,000 mg/l TDS. Attempts to seal the pond and reduce the leakage the last 2 years have only been partially successful. Brush Wellman attempted to seal the pond by spreading the tailings more evenly and to reduce the seepage by discharging less fluid with the tailings material. Monitoring wells show that the underlying ground water apparently has not been contaminated due to an extensive clay bed which perches the seepage as a large mound above the principle aquifer.

Because of the large discharge of wastewater from the facility and the increasing probability of ground water contamination, the Bureau is requiring Brush Wellman to apply for a ground water discharge permit and to find a satisfactory remedy for the leaking tailings pond. Brush Wellman proposed the following time schedule during the meeting in order to provide a satisfactory solution for the leakage.

1. Brush Wellman will apply for a ground water discharge permit by November 15, 1990 for the present tailings pond. The permit when issued could incorporate provisions as a compliance schedule which would allow Brush Wellman to address the need to increase pond capacity, if necessary, and to operate the pond until May 1, 1993. Brush Wellman will need to apply for a construction permit for the pond modification.
2. During the 2-1/2 year period Brush Wellman will analyze the problem and design and implement a satisfactory solution to prevent further leakage.

Mr. Donald J. McMillan

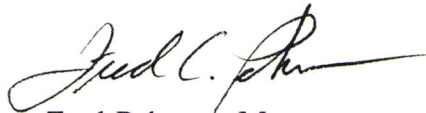
Page 2

October 11, 1990

3. The permit will require Brush Wellman to secure an approved closure plan at a later date for the existing pond. The plans should address items such a low pH, the permeability of the cover, and ground water monitoring.

Please review the above items and the time frame. If you have any questions call Mack Croft at (801) 538-6146.

Sincerely,



Fred Pehrson, Manager

Permitting, Compliance & Monitoring Branch

cc: Clarence Myers, Brush Wellman
JBR Consultants
DOGM
Roger Foisy, District Engineer
Central Utah District Health Dept.

MC:kc

Q:BrushWel.ltr